

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/039251 A1

(51) International Patent Classification⁷: **H05B 41/16, H02M 3/22**

(21) International Application Number:
PCT/AU2004/001415

(22) International Filing Date: 15 October 2004 (15.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003905705 17 October 2003 (17.10.2003) AU

(71) Applicant (for all designated States except US): **VICIOUS POWER PTY LTD [AU/AU]; 659 North East Road, Gilles Plains, S.A. 5086 (AU).**

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BASTIANS, David [AU/AU]; 659 North East Road, Gilles Plains, S.A. 5086 (AU).**

(74) Agent: **COLLISON & CO; 117 King William Street, Adelaide, S.A. 5000 (AU).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

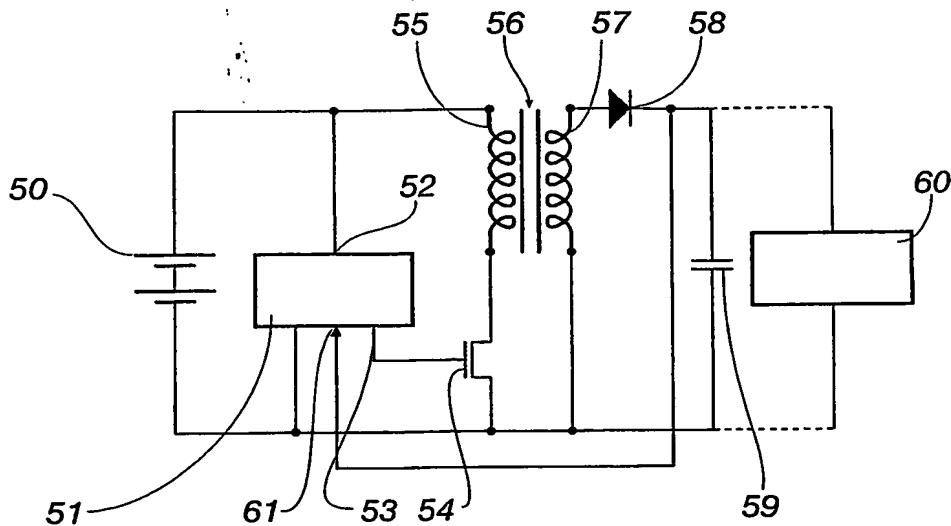
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): **ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ELECTRONIC POWER CONTROL FOR LAMPS



WO 2005/039251 A1

(57) Abstract: A power controller for use with lighting systems including a direct current voltage source (50), a coil of known inductance (55), a switch means (54) adapted to control application of the source voltage to the coil, means adapted to select a required duty cycle for the switch such that the input power level is substantially constant, and means (51) adapted to control operation of the switch such that this selected duty cycle is effected. A switch mode DC-DC converter is disclosed, wherein regulation occurs by manipulation of input power, without current monitoring.